

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method of storing channel information in a digital television receiver, comprising:

tuning to a selected physical channel;

reading program specific information (PSI) on the selected physical channel;

determining from the PSI whether the physical channel is PSIP compliant, and if not, then concluding that the physical channel is an MPEG compliant channel;

storing in a first lookup table an attribute explicitly designating as a table entry that a major channel associated with the physical channel is or is not a PSIP compliant channel;

if the selected physical channel is a PSIP compliant channel:

storing a TSID corresponding to the selected physical channel as entries in a second lookup table; and

storing a major channel corresponding to the selected physical channel as entries in a third lookup table; and

if the selected physical channel is an MPEG compliant channel:

storing no additional attributes in the second and third lookup tables.

2. (Currently Amended) The method of claim 1, further comprising:

incrementing the physical channel;

tuning to the incremented physical channel;

reading program specific information on the incremented physical channel;

determining from the PSI whether the incremented physical channel is PSIP compliant, and if not, then concluding that the physical channel is an MPEG compliant channel;

storing an attribute in the first lookup table designating whether the incremented physical channel is a PSIP compliant channel;

if the incremented physical channel is a compliant PSIP channel:

storing a TSID corresponding to the incremented physical channel as entries in the second lookup table; and

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storing a major channel corresponding to the incremented physical channel as entries in the third lookup table; and

if the selected physical channel is an MPEG compliant channel;

storing no additional attributes in the second and third lookup tables.

3. (Original) The method of claim 2, further comprising after the incrementing, determining if selected physical channel is a last physical channel, and if so, then stopping.

4. (Previously Presented) The method of claim 3, carried out as an automatic channel programming process in a digital television receiver.

5. (Previously Presented) The method of claim 4, wherein the lookup tables are stored in a non-volatile memory device.

6.-7. (Cancelled)

8. (Currently Amended) A method of autoprogramming channel information in a digital television receiver, comprising for each of a plurality of N physical channels:

tuning to a selected physical channel;

reading program specific information (PSI) on the selected physical channel;

determining from the PSI whether the physical channel is PSIP compliant, and if not, then concluding that the physical channel is an MPEG compliant channel;

storing in a first lookup table an attribute explicitly designating as a table entry that a major channel associated with the physical channel is or is not a PSIP compliant channel;

if the selected physical channel is a compliant PSIP channel:

storing a TSID corresponding to the selected physical channel as entries in a second lookup table; and

storing a major channel corresponding to the selected physical channel as entries in a third lookup table; and

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if the selected physical channel is an MPEG compliant channel:
storing no additional attributes in the second and third lookup tables.

9. (Currently Amended) A method of storing channel information in a digital television receiver, comprising:

tuning to a selected physical channel;

reading program specific information (PSI) on the selected physical channel;

determining from the PSI whether the physical channel is PSIP compliant, and if not, then concluding that the physical channel is an MPEG compliant channel;

storing in a first table an attribute explicitly designating as a table entry that a major channel associated with the physical channel is or is not a PSIP compliant channel;

if the selected physical channel is a PSIP compliant channel:

storing a TSID corresponding to the selected physical channel as entries in a second lookup table;

storing a major channel corresponding to the selected physical channel as entries in a third lookup table; and

if the selected physical channel is an MPEG compliant channel:
storing no additional attributes in the second and third lookup tables;

incrementing the physical channel;

tuning to the incremented physical channel;

reading program specific information on the incremented physical channel;

determining from the PSI whether the incremented physical channel is PSIP compliant, and if not, then concluding that the physical channel is an MPEG compliant channel;

storing an attribute in the first lookup table, said attribute designating whether the incremented physical channel is a PSIP compliant channel;

if the incremented physical channel is a compliant PSIP channel:

storing a TSID corresponding to the incremented physical channel as entries in the second lookup table; and

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storing a major channel corresponding to the incremented physical channel as entries in the third lookup table; and

if the selected physical channel is an MPEG compliant channel:
storing no additional attributes in the second and third lookup tables.

10. (Original) The method of claim 9, further comprising after the incrementing, determining if selected physical channel is a last physical channel, and if so, then stopping.

11.-13. (Cancelled)

14. (Previously Presented) The method of claim 10, wherein the three lookup tables are stored in a non-volatile memory device.

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